

Ammonites sublævis, *Am. lenticularis*, and *Am. mutabilis*, and some other indistinct species, are also found in the same locality, generally compressed.

DESCRIPTION OF THE PLATES.

All the figures are of the natural size, with the exception of Fig. 1. Pl. VI., which is about one-half.

PLATE III. Fig. 1, 2, 3. *Am. Elizabethæ*.

1. Simplest form.
2. Most usual character.
3. An uncompressed specimen.
4. Exhibits characters proving the specific identity of Figs. 1, 2, 3.

PLATE IV. Fig. 1. *Am. Comptoni*.

2. *Am. Stutchburii*.
3. Part of the aperture of ditto.

PLATE V. Fig. 1. *Am. Sedgwickii*.

2. *Am. Lonsdalii*.

PLATE VI. Fig. 1. *Am. fluctuosus*, half the natural size.

2. Ditto young.
3. *Am. Brightii*.
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XX.—*A List of Testaceous Mollusca collected in the Shetland Isles during a few days' residence there in the autumn of this year, and not noticed by Dr. Fleming in his 'History of British Animals' as indigenous to that country.* By J. GWYN JEFFREYS, Esq., F.R. & L.S., &c.

1. *Helix alliacea* (var.). At Lerwick, under stones near the sea-shore.
2. *Rissoa purpurea* (n. s.). At Scalloway.
3. *Pyramidella* (?) *interstincta* [*Odostomia interstincta*, Fleming]. In Lerwick Sound, among coral.
4. ——— (?) *insculpta* [*Odostomia insculpta*, Fleming]. With the last.
5. ——— (?) *pallida* [*Phasianella pallida*, Fleming]. With the last.
6. *Eulima Donovanii* [*Phasianella polita*, Fleming]. Lerwick Sound: not uncommon.
7. *Natica Helicoïdes*. Dr. Johnson in Trans. of Berwickshire Nat. Hist. Society. One specimen (the second which appears to have been recorded) was found by me while dredging in Lerwick Sound; it presents some generic differences (particularly in the aperture and umbilicus) from *Natica*. The figure in the Transactions of the Berwickshire Natural History Society is erroneously represented as reversed, and in other respects does not give a good idea of the shell.
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Pecten obsoletus, var. *omnino alba*. In Lerwick Sound; only one specimen.
 10. *Crenella elliptica*, Brown [*Mytilus decussatus*, *Montagu*]. In Lerwick Sound: not uncommon.
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 13. ——— *ferruginosa*, Turton. Scalloway; a single valve.
 14. *Lucina lactea*. At Scalloway: rare.
 15. ——— *spinifera* [*Venus spinifera*, *Montagu*]. In Lerwick Sound: rare.
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- Swansea, Sept. 1841.

XXI.—*Brief and Practical Instructions for the Breeding of Salmon and other Fish artificially.* By Sir FRANCIS A. MACKENZIE, Bart.

IN the autumn of 1840, having chosen a brook flowing rapidly into the river Ewe, a hollow spot adjoining to it was selected and cleared out, of the following dimensions: length 23 yards, breadth from 12 to 18 feet; and all large stones having been taken away, the bottom was covered 1 foot thick with coarse sand and small gravel, the largest stones not exceeding the size of a walnut. A stream from the brook was then led into this hollow, so as to form a pool of about 8 inches in depth at the upper and 3 feet at the lower end, thus giving it one uniform gentle current over the whole pool; whilst the supply of water was so regulated by a sluice as to have the same depth at all times, and a strong stone wall excluded all eels or trout, so destructive both to spawn and fry.

On the 13th of November, four pair of salmon, male and female, were taken by net from the Ewe, and carefully placed in the pool; on the 18th they showed a disposition to spawn, but on the 20th the whole were carried away by some ill-dis-

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